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Order from OTS or SLA \$1.10

62-10146

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AD-264 067, July 61, 9p.

DESCRIPTORS: *Control systems, *Linear systems,
Functions, Theory, Differential equations, Integral
equations, Perturbation theory.

This paper is concerned with the problem proposed
by Aizerman in regard to the stability of a set of non-
linear differential equations. Conditions for stability
are hypothesized by making a linear analogy to the
original non-linear system. The validity of these
(Mathematics, 77, v. 7, no. 9)

(over)

62-10146

1. Title: Lyapunov method
I. Malkin, I. G.

206034

Office of Technical Services

Malkin, I. G.

THE STABILITY OF AUTOMATIC REGULATION SYSTEMS (Ustoichivost' Sistem Avtomaticheskogo Regulirovaniya). Nov 60 [8]p. 1 ref. RTS 1698. Order from LC or SLA mi\$1.80, ph\$1.80 61-15210

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The stability problem of the system of type $(dx_s/dt) = p_{s1}x_1 + \dots + p_{sn}x_n + F_s(x_1, \dots, x_n)$, where $s = 1, 2, \dots, n$, is considered. For given conditions of $F_s(x_1, \dots, x_n)$ these functions satisfy, in the region $|x_s| \leq A$, the inequalities $|F_s(x_1, \dots, x_n)| < Q(|x_1| + \dots + |x_n|)$ where Q is a positive constant. The maximum values of this constant are found for which the equilibrium is asymptotically stable in the Lyapunov sense for any F_s function that satisfies the above conditions, and the permissible range of initial deviations are determined. A theorem in which these quantities are assessed is given: It is expressed directly in (Mathematics, TT, v. 5, no. 8) (over)

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1. Control systems--
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